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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,193	12/31/2003	Everett B. Lee	42.P18035	2545
8791	7590 09/21/2005		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			ERDEM, FAZLI	
SEVENTH FI			ART UNIT	PAPER NUMBER
LOS ANGEL	ES, CA 90025-1030		2826	
			D. TE MAIL ED 00/01/000	

DATE MAILED: 09/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		An-liection No	(Applicant/a)			
Office Action Summary		Application No.	Applicant(s)			
		10/751,193	LEE, EVERETT B.			
	Office Action Summary	Examiner	Art Unit			
	THE MANUAL DATE AND THE	Fazli Erdem	2826			
Period fo	The MAILING DATE of this communication apported in Reply	pears on the cover sheet with the c	correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timey within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 27 Ju	<u>une 2005</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) 1-17 and 23-36 is/are pending in the	application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🛛	☑ Claim(s) <u>23-36</u> is/are allowed. ☑ Claim(s) <u>1-17</u> is/are rejected.					
6)🛛						
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	e r.				
10)	The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents	s have been received.				
	3. Copies of the certified copies of the prior application from the International Bureau		d in this National Stage			
* 5	see the attached detailed Office action for a list	`	d.			
Attachment	• •					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa	atent Application (PTO-152)			
Paper	No(s)/Mail Date	6)	•			

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DETAILED ACTION

Allowable Subject Matter

1. Claims 23-36 allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 12-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Shin et al. (6,495,467) in view of Haskell (5,091,326) further in view of Lee et al. (6,197,639)

Regarding Claims 12-17, Shin et al. disclose a method of fabricating a non-volatile memory device where in claims 11, 18, 27 and 35 and in Fig. 9, interlayer dielectric layer 109, gate stack and active regions F1' are disclosed. Shin et al. fail to disclose the required slot/pattern in interlayer dielectric and the required bit lines. However, Haskett discloses an EPROM element employing self-aligning process where in Fig. 4A, slots 32 are located in oxide 26 to have access to active layers 20 and 22. Claims 11 and 21 of Haskett also disclose the required slot/dielectric configuration. Furthermore, Lee et al. disclose a method for manufacturing NOR-type flash memory device where the required bit lines are disclosed in claims 1, 2, 7 and 9.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required pattern/slot in interlayer dielectric and the

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required bit lines in Shin et al. as taught by Haskell and Lee et al. respectively, in order to have a flash memory device with increased performance.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE September 15, 2005

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